



Recognizer Training

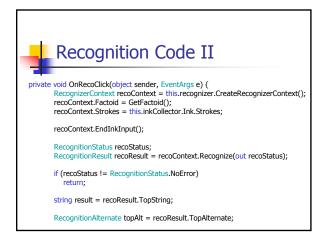
- Collect large set of training data
- Samples of known inputs that can be used to set "weights" in reco engine
- Needed to build a recognizer
 - Dictionary
 - Language samples
- Commercial recognizers based on massive data sets



Tablet PC Recognition API

- Basic idea:
 - Ink In, Text Out







Factoids

- Bias the recognizer towards certain types of content
 - DEFAULT
 - CURRENCY
 - NUMBER
 - TELEPHONE
 - EMAIL
 - UPPERCHAR



Reading Journal Notes

- Journal Reader to import .JNT
- .JNT -> XML -> Custom Format
- Journal format gives an initial parsing
 - You may want to undo this parsing and work with ink at the page level



JNT Format

- Journal Document
 - List of Journal Pages
- Journal Page
 - List of Content
- Content
 - Journal Drawing, Journal Paragraph, other stuff



Journal Drawing

- Uninterpreted Ink
 - Base64String

```
if (childNode.Name.ToLower().Equals("inkobject")) {
    string base64Ink = childNode.InnerText;
    ink = new Ink();
    ink.Load(Convert.FromBase64String(base64Ink));
}
```



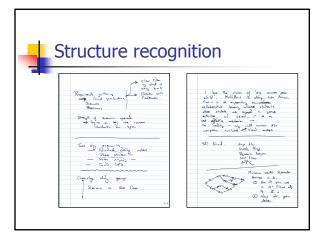
Text Structure

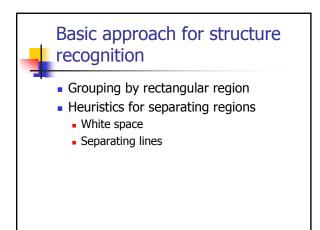
- JournalParagraph
 - List of JournalLines
- JournalLine
 - List of JournalInkWords
- JournalInkWord
 - Alternate List
 - Uninterpreted Ink

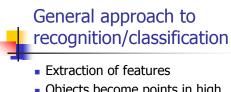


Shape recognition

- Surprisingly challenging because of drawing artifacts
 - Open figures
 - Multiple strokes
 - Imprecise corners
 - Arrows







- Objects become points in high dimensional space
- Construct mapping from features to classes

